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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/458,121	12/08/1999	GAL MOAS	042390.P7162 8466		
75					
JOHN P WAI	_	EXAMINER			
	KOLOFF TAYLOR &	GUBIOTTI, MATTHEW P			

LOS ANGELES, CA 90025

ART UNIT PAPER NUMBER 2124

DATE MAILED: 06/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)	PRG				
'	09/458,121	,	MOAS ET AL.	,				
Office Action Summary	Examiner		Art Unit					
	Matthew Gubiott		2124					
The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1) Responsive to communication(s) filed on 25 M	<u>larch 2003</u> .							
2a)⊠ This action is FINAL. 2b)□ This	s action is non-fir	nal.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) $\boxtimes$ Claim(s) <u>1-25</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-25</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirer	nent.						
Application Papers								
9) The specification is objected to by the Examiner		_						
10)⊠ The drawing(s) filed on <u>08 December 1999</u> is/ard								
Applicant may not request that any objection to the			` ,					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Pri rity under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
14) Acknowledgment is made of a claim for domestic		•		oplication).				
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲		PTO-413) Paper No(s). atent Application (PTO-1					
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Act	ion Summary		Part of Paner No. 8					

#### DETAILED ACTION

- 1. This action is in response to the amendment filed March  $25^{\rm th}$ , 2003.
- 2. Per request of the applicant:
  The specification has been amended.
- 3. Claims 1-25 are pending in the application.

### Response to Amendment

### Drawings

- 4. This application has been filed with informal drawings which are acceptable for examination purposes only. Figures 2 and 3 are handwritten. Additionally, the applicant should examine spacing and margin requirements for formal drawings. Formal drawings will be required when the application is allowed.
- 5. Figure 1A-1D should be designated by a legend such as -Prior Art-- because only that which is old is illustrated. The
  specification refers to these figures as illustrating a process
  disclosed as prior art (Page 7, Lines 1-2; Lines 17-18). A
  proposed drawing correction or corrected drawings are required
  in reply to the Office action to avoid abandonment of the
  application (See MPEP § 608.02(g)). The objection to the
  drawings will not be held in abeyance.

## Specification

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## Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1-3, 5-12, 14-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Yates (US 6,091,897). Referring to

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claim 1, Yates discloses a method for determining a set of needed resources for a block of code (Column 9, Lines 24-31; Column 11, Lines 3-6), a check to determine if the resources are present at the start of the code (Column 10, Lines 15-28), and an error signaling method (Column 29, Lines 4-20).

Referring to claim 2, Yates discloses a method for the determination of the available resources following the execution of a block of code (Column 11, Lines 22-37)

Referring to claim 3, Yates discloses a method in which needed resources for a block of code include stack contents (Column 5, Lines 26-29; Figure 22).

Referring to claim 5, Yates discloses a method in which resources are determined dynamically (Column 52, Lines 48-57).

Referring to claims 6 and 7, Yates teaches a fault handler routine that simulates a processor exception should the required resources for a block of code not be available (Column 86, Lines 12-35).

Referring to claims 8 and 9, Yates teaches the use of a dynamically generated bit vector to represent resources. (Column 68, Lines 2-4).

In reference to claims 10-12 and 14-18, the claims are the apparatus claims corresponding to claims 1-3 and 5-9,

respectively. The claims are rejected under the same arguments as cited above.

8. Referring to claim 19, Yates discloses a computer-readable medium that, through binary translation, transforms a first set of instructions into a second set of instruction (Column 4, Lines 1-12). Yates further discloses the method of determining a set of needed resources for a block of code (Column 9, Lines 24-31; Column 11, Lines 3-6), a check to determine if the resources are present at the start of the code (Column 10, Lines 15-28), and an error signaling method (Column 88, Lines 9-13).

Referring to claim 20, Yates discloses a method for the determination of the available resources following the execution of a block of code (Column 11, Lines 22-37).

Referring to claim 21, Yates discloses a method in which needed resources for a block of code include stack contents (Column 5, Lines 26-29; Figure 22).

Referring to claim 22, Yates discloses a method in which resources are determined dynamically (Column 52, Lines 48-57).

Referring to claims 23 and 24, Yates teaches a fault handler routine that simulates a processor exception should the required resources for a block of code not be available (Column 86, Lines 12-24).

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Referring to claim 25, Yates teaches the use of a bit vector to represent resources. (Column 68, Lines 2-4).

## Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 4 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yates (US 6,091,897) in view of Mondrik (US 5,627,998). Referring to claim 4, and as described above, Yates discloses a method for determining a set of needed resources for a block of code (Column 9, Lines 24-31; Column 11, Lines 3-6), a check to determine if the resources are present at the start of the code (Column 10, Lines 15-28), and an error signaling method (Column 88, Lines 9-13). Yates does not expressly disclose that the method taught for the determination of resources occurs at compile-time. Mondrik discloses a method of determining resources at compile-time (Column 6, Lines 36-45). At the time the invention was made, it would have been

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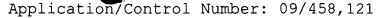
obvious to a person of ordinary skill in the art that the method disclosed in Yates may be used to determine the required resources for a block of code at compile-time. One of ordinary skill in the art would have been motivated to do this because an earlier determination of required resources for execution of a block of code may improve the efficiency of an computational process through optimization, as described by Yates (Column 3, Lines 43-46) and Mondrik (Column 6, Lines 41-45).

Claim 13 is the apparatus claim corresponding to claim 4. The claim is rejected under the same arguments as cited above.

## Response to Arguments

- 9. Applicant's arguments filed March 25th, 2003 have been fully considered but they are not persuasive.
- 10. Applicant has asserted, in substance, the following:
- A. "The present application includes limitation not disclosed or taught" by the prior art (See Applicant's Remarks, p.9,  $\P$  3).

Specifically, Applicant asserts Yates does not teach testing to see if resources are needed by a block of code, but rather teaches processing code on an instruction by instruction basis. Examiner respectfully disagrees with the distinction drawn by the Applicant. The Examiner has construed the claim language using the broadest reasonable interpretation. To the



extent that the claim recites the "block of code" feature, there is no recitation of any further specifics to define the feature over the references. A block of code can range greatly in size, and may often consist of a single instruction. In addition, as cited in the previous Office Action, Yates teaches an alternative method wherein a loader determines the resources need by a block of code (col.9, li.28-30) (discussing handling all the resources requirements for a specific block of code ['non-native image']).

Additionally, Applicant has asserted that the prior art does not teach "testing to see if the resources are available" (See Applicant's Remarks, p.10, ¶ 2). The Examiner strongly disagrees. The Examiner has construed the claim language using the broadest reasonable interpretation. To the extent that the claim defines the "resources" feature, there is no recitation of any further specifics to define the feature over the references. As asserted in the previous Office Action and restated above, Yates teaches performing a check to determine if a resource ("a native image corresponding to the routine of the application program") is available.

#### Conclusion

11. Applicant's arguments were not persuasive so Examiner maintains the grounds for rejection. Accordingly, THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew Gubiotti whose telephone number is (703) 305-8285. The examiner can normally be reached on M-F, 8-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

MPG May 21, 2003

> TUAN Q. DAM PRIMARY EXAMINER